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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/824,364	04/15/2004	Chang Nam Kim	K-0633	6307
34610 7590 05/11/2007 KED & ASSOCIATES, LLP P.O. Box 221200 Chantilly, VA 20153-1200			EXAMINER GUHARAY, KARABI	
			ART UNIT	PAPER NUMBER
			2879	
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			05/11/2007	PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/824,364	<b>Applicant(s)</b> KIM, CHANG NAM	
	<b>Examiner</b> Karabi Guharay	<b>Art Unit</b> 2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on Amendment, filed on 2/9/07.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-3,5 and 7-23 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3,5 and 7-23 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                       | 5) <input type="checkbox"/> Notice of Informal Patent Application                       |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

***Response to Amendment***

Amendment, filed on 2/9/07 has been considered and entered.

Claims have been amended.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 11-17 and 20-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Murayama et al. (JP 2001-230073).

Regarding claims 1 & 11, Murayama discloses an organic EL panel (Fig 15) comprising an emitting cell (1) comprising an ITO strip (3a), a supplement electrode (3b of Fig 8), an organic EL layer (8a of Fig 10), and an anode strip (9 of Fig 12); a bulkhead (7) for insulating the emitting cell (1) from the anode strip (see Fig 12), and at least one supplemental bulkhead (15a of Figs 41-45) coupled to at least one side portion other than an end portion of the bulkhead 7 (see paragraphs 9-15 of English Translation).

Regarding claims 2 & 12, Murayama discloses that the supplemental bulkhead (15) is provided in an area between the emitting cell and a sealant (Fig 15, Abstract).

Regarding claims 3 & 13, Murayama discloses that the supplemental bulkhead is perpendicular, thus forming a predetermined angle with the bulkhead (7, see 12).

Regarding claim 14, Murayama discloses that the supplemental bulkhead includes 3 segments (see Fig 27).

Regarding claims 15 & 16, Murayama discloses that the supplemental bulkhead (15) comprises a first supplemental bulkhead segment perpendicular (or first predetermined angle) to and connected with at least one of the bulkheads; a second supplemental bulkhead segment parallel to said one of the bulkheads and connected with the first supplemental bulkhead segment; and a third supplemental bulkhead segment perpendicular (or a second predetermined angle) to said one of the bulkheads and connected with the second supplemental bulkhead segment (see Fig 26).

Regarding claim 17, Murayama discloses that the supplemental bulkhead comprises a first supplemental bulkhead segment curved to and connected with at least one of the bulkheads; a second supplemental bulkhead segment parallel to said at least one of the bulkheads and connected with the first supplemental bulkhead segment; and a third supplemental bulkhead segment curved to said at least one of the bulkheads and connected with the second supplemental bulkhead segment (see Fig 28).

Regarding claims 20 & 21, Murayama discloses an organic EL display panel (Fig 48) comprising a plurality of emitting cells (area enclosing by anode strip 9) on an emitting region of a substrate; a sealant formed in a region other than the emitting region (not shown in figures, see paragraph 17) and a supplemental bulkhead (15a) angled between the emitting cell and the sealant (see Fig 47) so as to prevent sealant from permeating into the emitting region (shown in Fig 48).

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Further, it is elementary that mere recitation of a newly discovered function or property, inherently possessed by things in the prior art, does not cause a claim drawn to distinguish over the prior art. Additionally, where the Patent office has the reason to believe that a functional limitation asserted to be critical for establishing novelty in the claimed subject matter may, in fact, be an inherent characteristic of the prior art, it possesses the authority to require the applicant to prove that the subject matter shown to be in the prior art does not possess the characteristic relied on. *In Re Swinehart*, 169 USPQ 226(CCPA 1971). Thus, the functional limitation of "so as to prevent a sealant from permeating into the emitting cell" is taught by Murayama et al. under the principles of functional inherency.

Regarding claim 22, Murayama discloses that the at least one supplemental bulkhead is coupled to two bulkheads (see Fig 48).

### ***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 5, 7-10, 18-19 & 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's Admitted Prior Art, and further in view of Murayama et al. (JP 2001-230073).

Regarding claims 5, 7, 9-10, 18-19 & 23, AAPA discloses a method of manufacturing an organic EL display panel comprising forming a supplemental

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electrode (103 of Fig 1) in a smaller width than an ITO strip, forming an insulating film (106), forming a bulkhead (107), forming an organic EL layer (104) and an anode strip (105) and adhering a seal cover (109) and a glass substrate (101) by a sealant, wherein the insulating film (106) is around the organic EL layer from a predetermined area including the sealant to a portion of the glass substrate (see Fig 1).

However, AAPA fails to disclose a supplemental bulkhead coupled to at least one side portion other than an end portion of the bulkhead formed at the same time with the bulkhead.

However, Murayama, in the same field of organic EL panel discloses forming a bulkhead (barrier 7) and at least one supplemental bulkhead (15a of Figs 41-45) coupled to at least one side portion other than end portion of the bulkhead at the same time. Murayama further teaches that such configuration of bulkheads provide OLED with high reliability (see Abstract).

Thus, it would have been obvious to one having ordinary skill in the art at the time the invention was made to incorporate a supplemental bulkhead as taught by Murayama et al. in the device of AAPA, since this will provide high reliability of the display.

Regarding claim 8, AAPA further discloses forming a short ITO strip (102A of Fig 2A-2B), which is shorter than the ITO strip (102) between the bulkhead (107) and at least one other bulkhead (Fig 2D).

***Conclusion***

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Translation for Murayama patent has been ordered. It will be sent as soon as it is available.

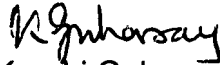
***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karabi Guharay whose telephone number is 571-272-2452. The examiner can normally be reached on Monday-Friday 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on 571-272-2457. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

  
Karabi Guharay  
Primary Examiner  
Art Unit 2879

5/8/07